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Riverside HYDRONICS

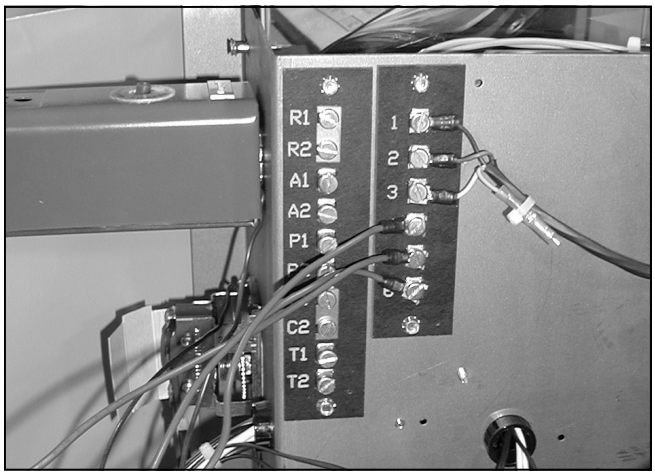
Installation Instructions - Supplemental

Connecting PRIMERA® boilers to a Boiler Management System

Installation of Boiler Management System must be performed by a qualified service installer or service agency. These instructions are to supplement the Installation and Maintenance Manual provided with your Primera water heater or boiler.

Before you begin, read and follow these instructions, as well as the information contained in the Primera Installation and Maintenance Manual. To obtain an additional copy of the Primera Installation and Maintenance Manual, or for any questions, call Riverside Hydronics, LLC at 1-800-990-5918.

WARNING: If the information in the supplied instructions and manual(s) is not followed exactly, a fire, explosion or exposure to hazardous materials may result, causing property damage, personal injury or loss of life.



Connections for BMS control are made to the terminal strip located on rear of PRIMERA control box. The terminal strip is accessed by removing the PRIMERA top pan.

Refer to above picture for all applications

If BMS is to provide remote on/off control only:

1. Remove the jumper connecting terminals R1 and R2
2. Connect the BMS output leads for the enable/disable function to terminals R1 and R2
3. Leave all other wires in their initial positions

If BMS provides <u>STAGE-FIRING</u> control: (Models 400B, 750B and 1000B)

1. Remove the jumper connecting terminals R1 and R2
2. Connect the BMS first stage leads to terminals R1 and R2 (no polarity)
3. Connect the BMS second stage leads to terminals T1 and T2 (no polarity)
4. On the TempTrac Control, move parameter St1 up to its maximum setting of 180°F. This setting effectively takes the TempTrac out of the way and allows complete control by the BMS system
5. Leave all other wires in their initial positions

NOTE: BMS must call for both first and second stage operation before firing cycle will be initiated. Afterward, BMS can cycle between low and high fire.

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If BMS provides <u>MODULATION</u> control through a 4 to 20 milliamp or 0 to 10 volt signal:

1. Remove the jumper connecting terminals R1 and R2
2. Connect the BMS output leads for the enable/disable function to terminals R1 and R2 (no polarity)
3. Remove blue wire from terminal T1 and cap the end with a wire nut. Secure the loose wire.
4. Connect the BMS variable signal output leads to terminals T1 and T2 (T1 is positive, T2 is negative)
5. On the TempTrac Control, move parameter St1 up to its maximum setting of 180°F. This setting effectively takes the TempTrac out of the way and allows complete control by the BMS system.
6. If the BMS supplies a 0 to 10 volt signal, remove the resistor connecting terminals 1 and 3. For milliamp signal, resistor must remain in place
7. Leave all other wires in their initial positions

In all cases, the BMS must sense temperature on the building's hydronic distribution loop <u>upstream</u> of the PRIMERA boilers. No attempt should be made to control the PRIMERA boilers by sensing temperature downstream of the boilers.